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\$\$ \$\$ \$\$ \$\$	\$	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	000000 000000 00 00 00 00	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$	
			\$					

0 MODULE setp0\$disp ( IDENT = 'V04-000', MAIN = setp0\$disp) =
1 BEGIN

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FACILITY: SET Command (SETPO.EXE)

### ABSTRACT:

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This is the main option dispatcher for all options handled by the SETPO image which completely resides is the PO region, stack and all, in order to map certain sections into P1 space.

#### **ENVIRONMENT:**

VAX/VMS operating system. unprivileged user mode,

AUTHOR: Tim Halvorsen, Dec 1979

# Modified by:

V03-003 AEW0001 Anne E. Warner 20-Jul-1984 Turn on the capability to report messages which was originally supressed.

V03-002 BLS0291 Benn Schreiber 24-MAR-1984 Move SET PASSWORD here from SET.

V03-001 GAS0112 Gerry Smith 29-Mar-1983 Use new CLI interface.

SETP0\$01SP V04-000		L 13 16-Sep-1984 00:37:26 14-Sep-1984 12:09:12	VAX-11 Bliss-32 V4.0-742 ECLIUTL.SRCJSETPODISP.832:1	Page 2 (1)
58 59 60 61 62	0058 1 ! 0059 1 ! Include files 0060 1 ! 0061 1 0062 1 LIBRARY 'SYS\$LIBRARY:STARLET.L32'; 0063 1			
; 62 ; 63	0062 1 LIBRARY 'SYS\$LIBRARY:STARLET.L32'; 0063 1	! VAX/VMS common defin	nitions	

Page

(2)

SETPO\$01SP V04-000

; 122

0121 1

password);

N 13 16-Sep-1984 00:37·26 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:12 [CLIUTL.SRCJSETPODISP.B32;1

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```
B 14
16-Sep-1984 00:37:26
14-Sep-1984 12:09:12
SETPOSDISP
                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                                                                                                                                                                                     Page
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                    (3)
                                                                                                                                                                                                                                                             [CLIUTL.: RC]SETPODISP.B32:1
                                             0122
0123
0124
0125
      125
127
128
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134
141
                                                                     ROUTINE handler (sigargs, mechangs) =
                                                                     BEGIN
                                            01267
01278
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                                                                          This routine is a condition handler established by the main
                                                                          routine. It saves the most severe condition for the exit status.
                                                                    MAP
                                                                                sigargs : REF $BBLOCK,
                                                                                mechargs : REF $BBLOCK;
                                                                                signame = sigargs[chf$l_sig_name] : $BBLOCK;
                                                                                                                                                                                                                                     ! Name of signal
                                                                    IF .setp0$l_status EQL 1
THEN setp0$l_status = .signame;
                                                                                                                                                                                                               ! If no errors yet, use
       142
                                                                                                                                                                                                                ! this one.
        144
                                                                    IF NOT .signame
                                                                                                                                                                                                               ! If an error signal
                                                                    AND .signame[sts$v_severity]
GTRU .$BBLOCK[setp0$l_status, sts$v_severity]
        145
                                                                                                                                                                                                                    and severity is worse
        146
                                                                                                                                                                                                                   than current saved severity
        147
                                                                    THEN setpO$l_status = .signame;
                                                                                                                                                                                                               ! then save it for exit
        148
                                                              Ž RETU
1 END;
        149
                                                                    RETURN ss$_resignal;
                                                                                                                                                                                                               ! Resignal to get message
       150
                                             0148
                                                                                                                                                                                                                     .TITLE SETPOSDISP
                                                                                                                                                                                                                     .IDENT
                                                                                                                                                                                                                                           \V04-000\
                                                                                                                                                                                                                     .PSECT SOWNS, NOEXE, 2
                                                                                                                              53 53 45 4D
                                                                                                                                                                            :NCITYO_T32 00000
                                                                                                                                                                                                                     .ASCII \MESS\
                                                                                                                              53 53 41 50 00004
                                                                                                                                                                                                                      .ASCII \PASS\
                                                                                                                  00000000 00000000 00008 SET_ROUTINE:
                                                                                                                                                                                                                     .ADDRESS SETSMESSAGE, SETSPASSWORD
                                                                                                                                                                                                                     .PSECT $GLOBAL$,NOEXE,2
                                                                                                                                               00000001 00000 SETPO$L_STATUS::
                                                                                                                                                                                                                     .LONG
                                                                                                                                                                                                                     .EXTRN CLISGET_VALUE, SETSMESSAGE .EXTRN SETSPASSWORD
                                                                                                                                                                                                                     .PSECT $CODE$, NOWRT, 2
                                                                                                                                                                                                                                           Save R2
SETPO$L_STATUS, R2
#4, SIGARGS, R0
SETPO$L_STATUS, #1
                                                                                                                                                                                                                                                                                                                                                                               0122
                                                                                                                                                              0004 00000 HANDLER: . WORD
                                                                                                                                                       CF
04
62
03
                                                                                                                                                                  9E
                                                                                                                                                                                                                    MOVAB
ADDL3
                                                                                                                                    0000'
                                                                                                                                                                           00002
                                                                                                                                                                                                                                                                                                                                                                                0136
0139
                                                                        50
                                                                                                 04
                                                                                                                                                                            00007
                                                                                                                                                                   D1
12
D0
                                                                                                                01
                                                                                                                                                                            0000C
                                                                                                                                                                                                                     CMPL
                                                                                                                                                                            0000F
                                                                                                                                                                                                                     BNEQ
                                                                                                                                                                                                                                            (RO), SETPO$L_STATUS (RO), 2$
                                                                                                                                                        60
                                                                                                                                                                            00011
                                                                                                                                                                                                                     MOVL
                                                                                                                                                                                                                                                                                                                                                                               0142
                                                                                                                                                                           00014 15:
                                                                                                                                                                                                                     BLBS
```

SETPO\$DISP V04-000				( 14 16-Sep-1 14-Sep-1	984 00:37:26 984 12:09:12	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETPODISP.B32;1	Page 6 (3)
51 51	62 60	03 03	03	EF 00017 ED 0001C 1B 00021	BLEQU 2\$	#0, #3 SETPO\$L STATUS, R1 #0, #3, (R0), RT 2\$	; 0144
		62 50	0918 8F	DO 00023 3C 00026 2\$: 04 0002B	MOVL (RO MOVZWL #23 RET	), SETPO\$L_STATUS 28, RO	; 0145 ; 0147 ; 0148

; Routine Size: 44 bytes, Routine Base: \$CODE\$ + 0000

.

```
152
153
154
155
156
157
                        ROUTINE setp0$disp =
                                                                     ! Main dispatching routine
               0150
               0151
               0152
0153
                          Functional description
               0154
                                 This routine decodes the set option and dispatches to
158
159
               0155
                                 the option specific routine.
               0156
160
               0157
                          Calling sequence
161
               0158
162
163
               0159
                                 Called from the Command Language Interpreter
               0160
164
               0161
                          Input parameters
               0162
165
166
                                 None
167
               0164
               0165
168
                          Output parameters
169
               0166
170
               0167
                                 None
171
               0168
172
173
               0169
                          Routine value
               0170
174
175
               0171
                                 Error returned from option routine or SS$_NORMAL.
               0172
176
177
                        ----
              0174
0175
0176
0177
178
179
                        BEGIN
180
181
183
184
186
187
188
191
191
193
194
197
                        LOCAL
              0178
                            desc : BLOCK[dsc$c_s_bln,BYTE],
                                                                     ! Option descriptor
                            status;
                                                                     ! status code
               0180
               0181
                        ENABLE handler:
                                                                              ! Enable the condition handler
              0182
               0184
                          Get option, and dispatch to it
               0185
              0186
0187
0188
0189
0190
                        ! Make descriptor dynamic
                        THEN RETURN .status:
                        desc[dsc$w_length] = MINU (.desc[dsc$w_length], 4);
               0191
               0192
0193
                        INCR index FROM 0 TO set_table_length - 1 DO
                            BEGIN
               0194
                            If CH$EQL(.desc[dsc$w_length], .desc[dsc$a_pointer],
198
               0195
                                        .desc[dsc$w_length], set_option[Tindex])
199
               0196
                            THEN
200
201
202
203
               0197
                                 BEGIN
                                 (.set_routine[.index])();
EXITLOOP
               0198
               0199
               0200
                                 END:
204
               0201
                            END:
205
206
207
                        RETURN (.setp0$l_status );
                                                                     ! Exit with message
               0204
208
                        END:
```

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# .PSECT \$PLIT\$, NOWRT, NOEXE, 2

# .PSECT \$CODE\$, NOWRT, 2

				0010	00000	SETPOSD		Cours D2 D7 D/	01/0
		5E 6D	004A 020E0000 04	04 C2 CF DE 8F DD AE D4	00005 0000A 00010		.WORD SUBL2 MOVAL PUSHL CLRL	Save R2,R3,R4 #4, SP 6\$, (FP) #34471936 DESC+4	0149 0175 0186
	0000G	CF 31 50	0000	5E DD CF 9F 02 FB 50 E9	00015 00019 0001E		PUSHL PUSHAB CALLS BLBC MOVZWL	SP P.AAA #2, CLI\$GET_VALUE STATUS, 5\$	0187
		04		6E 3C 50 B1 03 1B	00021 00024 00027		CMPW BLEQU	DESC, ŘO RO, #4 1 <b>\$</b>	0190
		50 6E		04 D0 50 B0 54 D4	00029 00020 0002F		MOVL MOVW CLRL	#4, RO RO, DESC INDEX	0194
9E	08	BE	0000 <b>°</b> 04	CF44 DF AE 29 OB 12	00031 00036 0003C	2\$:	PUSHAL CMPC3	SET_OPTION[INDEX] DESC, adesc+4, a(sp)+ 3\$	0195
		50 60	0000	CF44 DO 00 FB 04 11			BNEQ MOVL CALLS BRB	SET_ROUTINE[INDEX], RO #0, (RO)	0198 0197
E4		54 50	0000•	01 F3 CF DO	00049 0004D 00052	3\$: 4\$: 5\$:	AOBLEQ MOVL RET	#1. INDEX. 28 SETPOSL_STATUS, RO	: 0192 : 0203
	FF72	7E (F	04	0000 7E D4 5E DD AC 7D 03 FB 04	00053 00055 00057 00059 00050	6\$:	.WORD CLRL PUSHL MOVQ CALLS RET	Save nothing -(SP) SP 4(AP), -(SP) #3, HANDLER	0205 0175

; Routine Size: 99 bytes, Routine Base: \$CODE\$ + 002C

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210 0206 1 END 211 0207 0 ELUDOM

PSECT SUMMARY

Name Bytes Attributes \$GLOBAL\$ WRT, NOVEC, RD , NOEXE, NOSHR, LCL, CON, NOPIC, ALIGN(2) RD , NOEXE , NOSHR , RD , EXE , NOSHR , RD , NOEXE , NOSHR SOUNS NOVEC, WRT, ĽČĽ, CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) REL, **SCODES** REL. SPLITS 16 NOVEC, NOWRT, LCL. REL, CON, NOPIC, ALIGN(2)

Library Statistics

File Total Loaded Percent Mapped Time

\$\frac{1}{2}\$255\$DUA28:[SYSLIB]STARLET.L32:1 9776 13 0 581 00:01.0

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: SETPODISP/OBJ=OBJ\$: SETPODISP MSRC\$: SETPODISP/UPDATE=(ENH\$: SETPODISP)

Size: 143 code + 36 data bytes Run Time: 00:04.9

Run Time: 00:04.9 Elapsed Time: 00:20.8 Lines/CPU Min: 2529 Lexemes/CPU-Min: 14969 Memory Used: 54 pages Compilation Complete

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0053 AH-BT13A-SE

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